

ORIGINAL

TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

DOCUMENT DESCRIPTION	DOCUMENT CONTROL NUMBER	DATE RECEIVED
8EHQ-07-17005	89110000419	7/28/11

COMMENTS:

DOES NOT CONTAIN CBI

MR#337072



DuPont Haskell Global Centers
for Health and Environmental Sciences
1090 Elkton Road, P.O. Box 50
Newark, DE 19714-0050

July 27, 2011

Via Federal Express

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Room 6428
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
1201 Constitution Ave., NW
Washington, DC 20004



11 JUL 28 PM 12:42
RECEIVED

Dear 8(e) Coordinator:

8EHQ-07-17005
Oxirane, trifluoro(trifluoromethyl)-
CAS # 428-59-1

DuPont received information from a third party on the above-referenced substance. DuPont has reviewed the information for reportability under TSCA 8(e) and provides below a summary of the information as received that has been determined to meet EPA's TSCA 8(e) criteria for reporting. It is unknown whether the information reported below has been previously reported to EPA by any third party or is otherwise considered known to the Administrator under TSCA 8(e) guidance.

The ready biodegradability of the test substance was assessed in a 28-day test according to the Test Guidelines (TG) ISO 14593:2005: *Water quality -- Evaluation of ultimate aerobic biodegradability of organic compounds in aqueous medium -- Method by analysis of inorganic carbon in sealed vessels (CO₂ headspace test)*.

The study was conducted in duplicate at a concentration of approximately 13 mL test substance/L. The study included reference and toxicity controls (approximately 26 mg reference substance/L) and duplicate control test systems (mineral media and inoculum only; no test or reference substance). An abiotic control was also included in the study (mineral media and test substance; no inoculum). The study temperature was 21±1°C. Biodegradation was determined by measuring the increase in the concentration of inorganic carbon (IC) during the study, which is an indication of CO₂ production. IC was measured on days 0, 2, 6, 8, 10, 14, 17, 22 and 28 by the IC-method using a Shidamzu 5050A analyzer after conversion of CO₂ to carbonate. This was done by injecting the test bottle with 1.0 mL 7M NaOH, shaking for one hour, and analyzing 5 mL of test solution for IC. Average biodegradation of the test substance was no greater than 7% after 28 days. The results of the test indicate that the test substance is not ready biodegradable. The test met the criteria for a valid test.

Sincerely,

S. Satheesh Anand, Ph.D., DABT
Senior Research Toxicologist



SSA/WRB: clp
(302) 366-5314

CONTAINS NO CBI

TSCA 8(e)
Submission: 2011-254

TSCA 8(e) #: 8EHQ-07-17005
CAS #: 428-59-1
Chemical Name: Oxirane, trifluoro(trifluoromethyl)-
Generic Name: HFPO
Synonyms: hexafluoropropylene epoxide
SBU: DC&F
WR #: XX
SC #: XX
Report #: No. 06030702J606 ; REACH consortium (3M/Dyneon)

bcc: L. J. Fisher
T. L. Medley
M. L. Rees
S. S. Anand
G. Cluett
G. W. Jepson
G. N. Graham

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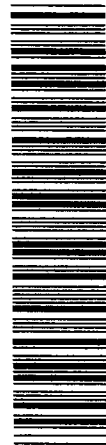
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